

Detection of Cox-1 in Formalin-Fixed, Paraffin-Embedded in Mouse Tissue

Reagents:

[1X Automation Buffer](#)

[3% Hydrogen Peroxide](#)

[Antibody Diluent](#)

[Citrate Buffer](#)

[DAB Chromagen](#)

[Hematoxylin](#)

Antibody Information:

Kit used: Vector M.O.M. Kit

Vector Laboratories, Inc.

Burlingame, CA 94010

www.vectorlabs.com

1-800-227-6666

Catalog: PK2200

Avidin Biotin Blocking Kit

Vector Laboratories, Inc.

Burlingame, CA 94010

www.vectorlabs.com

1-800-227-6666

Catalog #SP-2001

Primary antibody: Mouse anti-sheep Cox 1

Caymen Chemical

Ann Arbor, MI 48108

www.caymanchem.com

1-800-364-9897

Catalog #160110

Negative Control: Normal Mouse Serum

Jackson ImmunoResearch Laboratories, Inc.

West Grove, PA 19390

www.jacksonimmuno.com

1-800-367-5296

Catalog #015-000-001

Staining Procedure:

-Positive Control Tissue: Mouse Male Reproduction, vas deferens, epididymis

-Stain Localization: Cytoplasmic

Deparaffinize and hydrate slides through the following solutions.

Xylene	2 times	5 minutes
100% EtOH	2 times	3 minutes
95% EtOH	2 times	3 minutes
1X Automation Buffer	2 times	5 minutes

1. Quench endogenous peroxidase by placing slides in 3% hydrogen peroxide for 15 minutes.

2. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.

3. Perform Heat Induced Epitope Retrieval using Microwave Oven.

Place a full rack of slides in a container containing 200 mls 1X citrate buffer.

MWO for 5 minutes at power level 3

Cool for 1 minute (Add 50 mls citrate buffer to container)

MWO for 5 minutes at power level 3 temp_____

Cool 20 minutes at room temperature

Rinse in distilled water 3 X 2 minutes each

Place slides in buffer for 5 minutes

4. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.

5. Incubate sections for 1 HOUR in MOM specific IgG blocking reagent.

(Made via 2.5 mls 1x PBS plus 2 drops of Mouse IgG blocking reagent)

Lot#_____ Exp Date_____

6. Apply Avidin/Biotin block

Lot#_____ Exp Date_____ New Kit yes / no

Apply avidin block - 15 min @ RT.

Quick rinse in 1X AB.

Apply biotin block - 15 min @ RT.

No wash, wipe excess block and apply primary antibody

Wipe excess reagent from around tissue section.

DO NOT RINSE SECTIONS WITH BUFFER.

**Make primary antibody dilution and secondary in Vector MOM diluent.
(600ul of protein stock in 7.5 mls PBS)**

7. Apply primary antibody at a 1:25 dilution and incubate for one hour.

Lot#_____ Exp Date_____

For negative control slides, normalize the protein concentration of normal mouse serum to the protein concentration of the primary antibody and use this to make 1:25 dilution. Apply to slides and Incubate for one hour.

Lot#_____ reconstituted date_____

8. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.

9. Apply M.O.M. biotinylated anti-mouse IgG and incubate for 10 minutes
Made via 10ul of antibody in 2.5mls of Vector MOM diluent.

10. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.

11. Apply Vectastain ABC Elite label for 5 minutes.

(Made via 2 drops of Reagent A plus 2 drops of Reagent B in 2.5 mls BSA diluent.
Prepare 30 minutes before use)

Exp Date_____ New Kit Yes / No

12. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.

13. Apply liquid Dako DAB Chromagen for 6 minutes in the dark.
(Add 1 drop of DAB per ml of substrate)

Lot #_____ Exp Date_____ New Kit Yes / No

14. Rinse in tap water 3 minutes.

15. Counterstain with Modified Harris Hematoxylin for 30 seconds.

16. Rinse in tap water until water is clear.

17. Rinse slides in 1x automation buffer for 1 min with gentle agitation to blue slides.

18. Dehydrate through the following solutions.

95% Ethanol	1 change	3 minutes
100% EtOH	3 changes	3 minutes
Xylene	2 changes	5 minutes

19. Coverslip

updated 01/14/2004